



Ministry
of the
Environment

Water Resources
Bulletin 3-15
Surface water series

Hon. Keith C. Norton, Q. C., *Minister*
G. J. M. Raymond, *Deputy Minister*

SELECTED STREAMFLOW DATA FOR ONTARIO 1980

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**SELECTED
STREAMFLOW
DATA FOR
ONTARIO
1980**

MINISTRY OF THE ENVIRONMENT
Water Resources Branch

TORONTO

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INTRODUCTION

This bulletin contains streamflow data collected during 1980 by personnel of the Ministry of the Environment.

The basic data were collected and compiled by the Water Resources Assessment Units of the Ministry's Regional Offices at London, Stoney Creek, Don Mills and Sudbury.

This publication was prepared by personnel of the Hydrology and Monitoring Section of the Water Resources Branch, Ministry of the Environment, Toronto.

Enquiries concerning the data in this bulletin should be made to the following:

Hydrology and Monitoring Section
Water Resources Branch
135 St. Clair Avenue West
Toronto, Ontario
M4V 1P5

Technical Support Section
London Regional Office
985 Adelaide Street South
London, Ontario N6E 1V3

Technical Support Section
Toronto Regional Office
150 Ferrand Drive (Suite 700)
Don Mills, Ontario M3C 3C3

Technical Support Section
Hamilton Regional Office
140 Centennial Parkway North
Stoney Creek, Ontario L8E 3H2

Technical Support Section
Sudbury Regional Office
199 Larch Street
Sudbury, Ontario P3E 5P9

Other Data Sources

Data collected by the Regional Offices on a daily basis throughout the year in Southern Ontario are not published in this bulletin.

For convenience, these data are included in the Federal Government publication, "Surface Water Data - Ontario". That publication, which includes streamflow and water-level data for numerous rivers and lakes in the Province, is published annually by Water Survey of Canada. Enquiries should be made to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario K1A 0E7.

Two maps showing the locations of active and discontinued streamflow stations, respectively, in Ontario, at a scale of one inch equals 32 miles, are also available from the Canada Department of the Environment. These maps are part of the Hydrometric Map Supplement to the 1977 Surface Water Reference Index for Canada produced by the Inland Waters Directorate, Water Resources Branch, Department of the Environment. The Hydrometric Map Supplements are produced at approximately 5-year intervals.

Other Ontario Ministry of the Environment publications which are related to the subject of streamflow may be obtained from the Ontario Government Bookstore and these are referenced as follows:

Water Resources Report 11a, Northern Ontario Water Resources Studies, General Characteristics and Frequency Analyses of Streamflows, 1978.

Water Resources Map 3005-1, Low-Flow Characteristics of Streams in the Toronto-Centred Region, 1973.

Water Resources Map 3005-2, Low-Flow Characteristics of Streams in Southwestern Ontario, 1974.

Water Resources Map 3005-3, Low-Flow Characteristics of Streams in Southeastern Ontario, 1977.

Water Resources Map 3005-4, Low-Flow Characteristics of Streams in Northeastern Ontario, 1979.

Water Resources Bulletin, Atlas of Streamflow Stations in Ontario, 1980.

DATA QUALITY

Many of the flows were determined by direct measurements; others are values calculated from a reading of water elevation and an empirically determined stage-discharge relationship. For stations where a stage-discharge relationship has been developed, the following terms are used to describe the quality of the records.

Excellent Records obtained at a site where an intensive discharge measurement program has produced a well-defined and stable stage-discharge relationship.

Good: Records obtained from a site where an intensive discharge measurement program has produced a well-defined stage-discharge relationship which is not completely stable due to minor shifting of the stream bed or other channel properties which control water levels.

Fair: Records obtained from a site where scarcity of discharge measurements has permitted only moderate definition of the stage-discharge relationship.

Poor: Records obtained from a site where an unstable control, poor discharge measurement section or discharge measurements has resulted in a poorly defined stage-discharge relationship.

DEFINITION OF TERMS AND ABBREVIATIONS

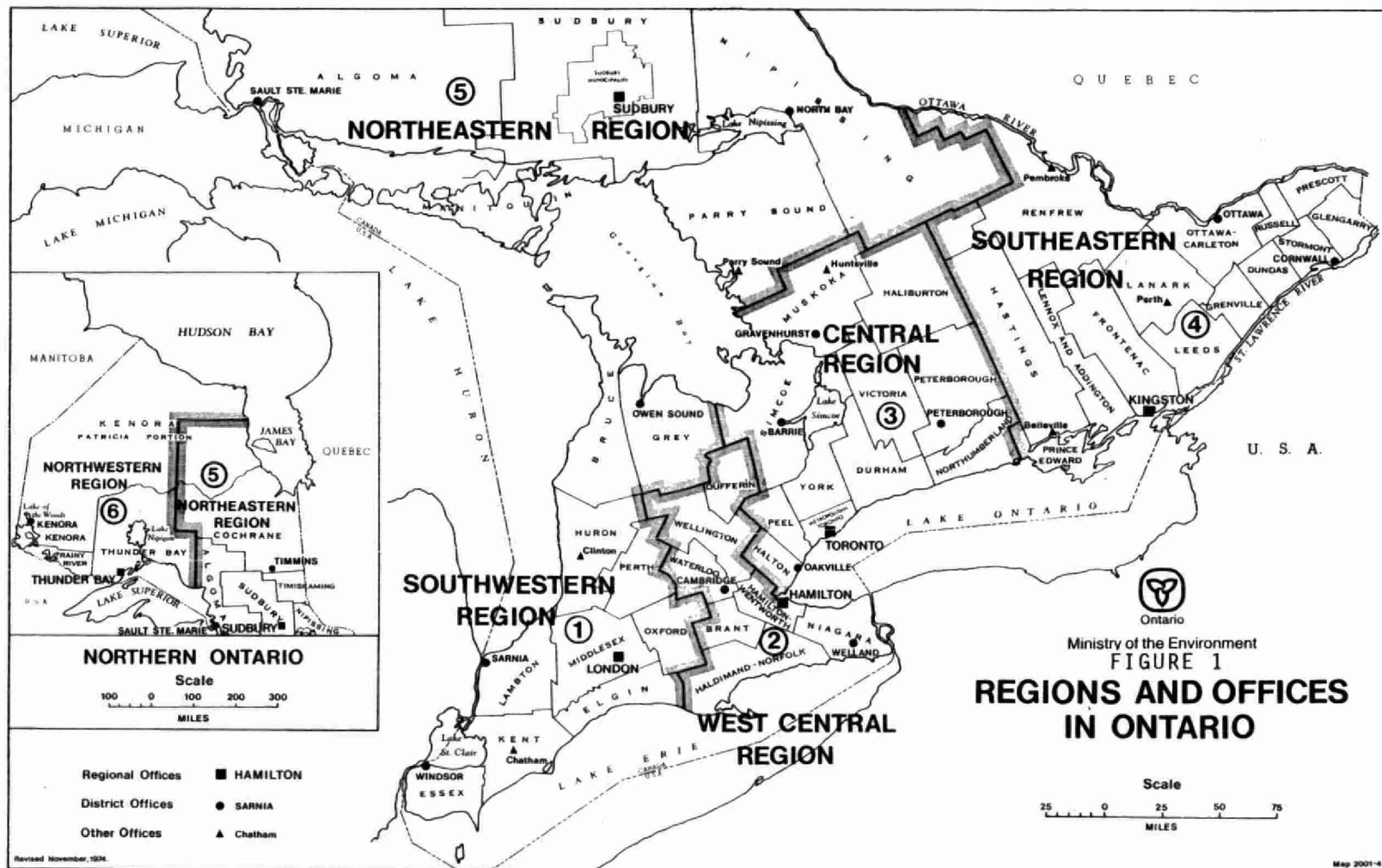
"Cubic metre per second" (m^3/s)	is the unit expressing the rate of streamflow discharge used in this bulletin.
"Cubic decametre" (dam^3)	is the volume of water required to cover an area of 1000 square metres to a depth of one metre. It is equal to 1000 cubic metres.
"WPCP"	Water Pollution Control Plant.
"No Flow" (N.F.)	This notation indicates a field observation of either no streamflow, or a flow of less than $0.001 \text{ m}^3/\text{s}$.
"<"	Less than

1 cubic metre equals 1000 litres.

1 cubic metre per second equals 60,000 litres per minute.

1 cubic metre per second for one day equals 86.4 cubic decametres.

1 cubic metre per second equals 35.3145 cubic feet per second.



ALDER CREEK NEAR NEW DUNDEE

Station No. 02GA115

Location: Adjacent to Waterloo County Road No. 7, Lot 7, Concession 2, Township of Wilmot, about 3.2 kilometres north of the Village of New Dundee.

Gauge: Staff

Drainage Area: 3.6 square kilometres

Period of Record June 1979 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
				Aug. 5	.068	Oct. 10	.076
				Aug. 11	.062		
				Aug. 15	.062		
				Aug. 22	.056		
				Aug. 29	.051		
				Sep. 5	.039		
				Sep. 8	.068		
				Sep. 26	.076		

AUSABLE RIVER TRIBUTARY NEAR HENSALL
STATION No. 02FF105

Location: At the bridge on Hwy. 4, about 1.8 kilometres south of the Village of Hensall

Gauge: None

Drainage Area: 15.8 Square kilometres

Period of Record: June 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s

May 2	.212	Jul 23	.025
May 5	.153	Jul 31	.062
May 12	.091	Aug 14	.011
May 22	.156	Aug 25	.011
Jun 6	.230		
Jun 9	.105		
Jun 19	.048		
Jun 25	.040		

AUSABLE RIVER NEAR EXETER

Station No. 02FF109

Location: At the bridge at Concession 4, Lot 29, Township of
Usborne, about 6.4 kilometres northeast of the Town of
Exeter

Gauge: Measuring point

Drainage Area: 69.7 Square kilometres

Period of Record: May 1978 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 2	.634	Jul 10	.374		
		May 5	.402	Jul 23	.040		
		May 12	.218	Aug 7	.031		
		May 22	.408	Aug 14	.025		
		Jun 6	.680	Aug 25	.006		
		Jun 19	.088				
		Jun 25	.065				

BAXTER CREEK NEAR MILLBROOK

Station No. 02HJ104

Location: Upstream of the Township road bridge at Lot 10,
Concenssion 4, Township of Cavan, about 1.6 kilometres
southeast of the Town of Millbrook

Gauge: On-stream recorder

Drainage Area: 30.6 Square kilometres

Period of Record: October 1977 to December 1980

Remarks: Records good. Temporary on-stream recorder installed
April 1st, to November 30, 1980.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980									
	Day Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Day
1	0.521	0.851	0.355	0.402	0.512	0.757	0.405	0.507	1
2	0.351	0.739	0.430	0.379	0.481	0.821	0.453	0.529	2
3	0.391	0.692	0.415	0.362	0.527	0.768	0.542	0.502	3
4	0.598	0.648	0.381	0.362	0.468	0.541	0.703	0.504	4
5	0.545	0.604	0.346	0.362	0.412	0.438	0.637	0.504	5
6	0.726	0.581	0.334	0.357	0.394	0.390	0.545	0.489	6
7	0.840	0.562	0.378	0.362	0.369	0.363	0.500	0.555	7
8	0.766	0.548	0.371	0.391	0.359	0.349	0.462	0.768	8
9	0.420	0.543	0.376	0.345	0.370	0.354	0.448	0.691	9
10	0.433	0.524	0.376	0.340	0.334	0.386	0.433	0.631	10
11	0.590	0.496	0.352	0.331	0.325	0.360	0.435	0.543	11
12	0.710	0.504	0.334	0.315	0.365	0.345	0.479	0.501	12
13	0.757	0.512	0.313	0.310	0.361	0.366	0.445	0.500	13
14	1.01	0.576	0.308	0.294	0.339	0.441	0.448	0.704	14
15	1.73	0.555	0.365	0.303	0.324	0.423	0.484	0.677	15
16	1.04	0.519	0.397	0.334	0.310	0.388	0.437	0.545	16
17	0.881	0.490	0.345	0.327	0.303	0.396	0.439	0.470	17
18	0.867	0.577	0.315	0.314	0.309	0.498	0.561		18
19	0.855	0.609	0.317	0.297	0.316	0.400	0.542		19
20	0.824	0.539	0.629	0.489	0.304	0.374	0.496		20
21	0.773	0.490	0.599	2.15	0.296	0.384	0.488		21
22	0.719	0.459	0.435	0.787	0.300	0.396	0.487		22
23	0.656	0.439	0.361	0.558	0.327	0.774	0.471		23
24	0.636	0.422	0.293	0.464	0.316	0.622	0.442		24
25	0.660	0.403	0.297	0.425	0.302	0.477	0.547		25
26	0.697	0.363	1.02	0.425	0.301	0.506	1.21		26
27	0.651	0.360	0.569	0.498	0.300	0.533	0.929		27
28	0.786	0.361	0.408	0.634	0.448	0.464	0.714		28
29	1.24	0.358	0.422	1.51	0.459	0.438	0.595		29
30	1.04	0.334	0.614	0.900	0.374	0.435	0.523		30
31		0.352		0.614	0.393		0.486		31

BLACK CREEK BELOW ACTON

Station No. 02HB106

Location: At the bridge on Concession 4, Township of Esquesing, about 2.4 kilometres southeast of the Town of Acton.

Gauge: On-stream recorder.

Drainage Area: 25.9 Square kilometres.

Period of Record: April 1966 to December 1980.

Remarks: Temporary on-stream recorder installed March 6 to November 30, 1980. Discharge affected by regulation.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980											
Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1		0.576	0.621	0.195	0.335	0.214	0.141	0.135	0.116		1
2		0.483	0.492	0.264	0.248	0.187	0.141	0.162	0.106		2
3		0.397	0.419	0.315	0.215	0.159	0.132	0.239	0.121		3
4		0.540	0.351	0.280	0.206	0.147	0.122	0.186	0.131		4
5		0.512	0.338	0.250	0.184	0.145	0.120	0.157	0.124		5
6	0.092	0.466	0.291	0.268	0.147	0.138	0.111	0.163	0.122		6
7	0.096	0.419	0.257	0.272	0.137	0.125	0.103	0.155	0.143		7
8	0.096	0.459	0.152	0.283	0.156	0.117	0.107	0.146	0.176		8
9	0.116	0.681	0.151	0.243	0.137	0.107	0.124	0.203	0.180		9
10	0.147	0.676	0.177	0.221	0.135	0.099	0.117	0.378	0.208		10
11	0.213	0.578	0.210	0.200	0.125	0.100	0.103	0.143	0.227		11
12	0.293	0.522	0.219	0.189	0.117	0.140	0.112	0.137	0.172		12
13	0.255	0.470	0.271	0.184	0.118	0.110	0.138	0.125	0.149		13
14	0.223	0.671	0.385	0.175	0.128	0.110	0.132	0.127	0.157		14
15	0.189	1.28	0.314	0.188	0.184	0.111	0.115	0.129	0.142		15
16	0.166	0.960	0.267	0.182	0.171	0.101	0.114	0.135	0.136		16
17	0.472	0.715	0.273	0.179	0.154	0.092	0.137	0.139	0.138		17
18	0.282	0.576	0.555	0.171	0.145	0.102	0.120	0.216	0.131		18
19	0.612	0.499	0.481	0.172	0.143	0.108	0.112	0.188	0.127		19
20	0.959	0.468	0.393	0.280	0.151	0.115	0.108	0.201	0.127		20
21	2.12	0.410	0.317	0.207	0.180	0.128	0.120	0.184	0.131		21
22	1.54	0.353	0.261	0.182	0.177	0.124	0.146	0.175	0.134		22
23	0.832	0.332	0.232	0.194	0.166	0.121	0.241	0.152	0.141		23
24	0.627	0.367	0.217	0.180	0.142	0.108	0.139	0.145	0.151		24
25	0.533	0.363	0.213	0.171	0.137	0.113	0.143	0.257	0.142		25
26	0.473	0.328	0.216	0.162	0.133	0.111	0.209	0.299	0.128		26
27	0.450	0.300	0.192	0.185	0.147	0.112	0.142	0.261	0.127		27
28	0.454	0.617	0.188	0.192	0.431	0.109	0.126	0.231	0.146		28
29	0.456	0.984	0.179	0.350	0.522	0.116	0.130	0.217	0.148		29
30	0.401	0.850	0.180	0.507	0.320	0.117	0.138	0.197	0.153		30
31	0.468		0.193		0.239	0.252		0.130			31

BLYTH BROOK NEAR BLYTH

Station No. 02FE105

Location: At the bridge on the Side Road 39-40, Township of East Wawanosh, about 2.4 kilometres northwest of the Village of Blyth.

Gauge: Staff

Drainage Area: 50.5 Square kilometres

Period of Record: July 1975 to December, 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 5	.569	Jul 9	.108		
		May 14	.595	Jul 25	.071		
		Jun 4	.303	Aug 12	.068		
		Jun 11	.170	Aug 26	.037		
		Jun 24	.127				

BROUGHAM CREEK AT GREENWOOD CONSERVATION AREA
STATION NO. 02HC121

Location: At the bridge on Con. 5, Township of Pickering, just upstream of the confluence with Duffins Creek in the Greenwood Conservation Area.

Gauge: Measuring Point

Drainage Area: 12.7 Square kilometres

Period of Record: April to December, 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.158	Jul 18	.700	Oct 16	.075
		May 28	.080	Jul 29	.242		
		Jun 20	.154	Aug 18	.075		

BUTLER CREEK BELOW BRIGHTON
STATION NO. 02HD100

Location: At the wooden bridge on Harbour Street about 1.6 kilometres south of the Village of Brighton.

Gauge: Staff

Drainage Area: 30.3 Square kilometres

Period of Record: June 1966 to December 1975
May 1977 to December 1980

Remarks: Records fair

1980							
<u>Jan. to March</u>		<u>April to June</u>		<u>July to Sept.</u>		<u>Oct. to Dec.</u>	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.283	Jul 10	.136		
		May 28	.120	Aug 13	.120		
		Jun 24	.109	Aug 29	.081		
				Sep 24	.094		
				Oct 24	1.32		
				Oct 30	.379		

CARRUTHERS CREEK AT AJAX
STATION NO. 02HC100

Location: At the bridge on Baseline Road, about .8 kilometres east of the Town of Ajax.

Gauge: Staff

Drainage Area: 31.1 Square kilometres

Period of Record: April 1967 to December 1974, 1978
May to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 29	.024	Jul 11	.018	Oct 23	.109
		Jun 30	.988	Aug 29	.022	Oct 29	.217
				Sep 12	.039		

COBOURG BROOK AT COBOURG
STATION NO. 02HD103

Location: At the bridge adjacent to the WPCP in the Town of Cobourg .

Gauge: Wire weight

Drainage Area: 126 Square kilometres

Period of Record: July 1966 to December 1980

Remarks: Records good

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	1.35	Jul 10	.640	Oct 24	.784
		May 14	1.31	Aug 13	.714	Oct 30	1.14
		May 28	.714	Sep 12	.603		
		Jun 25	.657	Sep 24	.694		

COLBORNE CREEK AT LAKEPORT
STATION NO. 02HD102

Location: At the bridge in the Hamlet of Lakeport on the road leading to the Village of Colborne.

Gauge: Staff

Drainage Area: 44.0 Square kilometres

Period of Record: July 1966 to December 1980

Remarks: Records good

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.476	Jul 10	.204		
		May 28	.297	Aug 13	.278		
		Jun 24	.204	Aug 29	.235		
				Sep 24	.242		
				Oct 24	.279		
				Oct 30	.362		

COOKSTOWN CREEK AT HWY.89

Station No. 02ED110

Location: At the western boundary of the Cookstown town limits on Hwy. 89.

Gauge: Recording

Drainage Area: 20.7 Square kilometres.

Period of Record: May to November 1980.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980								
May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
	0.007	0.057	0.082		0.068	0.108		1
	0.040	0.054	0.078		0.442	0.101		2
	0.022	0.034	0.116		0.487	0.095		3
	0.016	0.019	0.059		0.530	0.099		4
	0.012	0.012	0.041	0.123	0.214	0.109		5
	0.019	0.008	0.042	0.079	0.140	0.107		6
	0.037	0.006	0.031	0.055	0.120	0.137		7
	0.031	0.007	0.041	0.040	0.093	0.194		8
	0.025	0.008	0.040	0.055	0.073	0.277		9
	0.022	0.006	0.028	0.069	0.061	0.221		10
	0.019	0.002	0.024	0.045	0.061	0.163		11
	0.014	0.001	0.238	0.033	0.059	0.145		12
0.040	0.008	0.001	0.104	0.042	0.072	0.172		13
0.057	0.007	0.001	0.063	0.065	0.079	0.389		14
0.037	0.016	0.015	0.043	0.063	0.065	0.234		15
0.023	0.014	0.013	0.032	0.050	0.061	0.168		16
0.019	0.008	0.007	0.025	0.086	0.067	0.143		17
0.153	0.011	0.005	0.039	0.104	0.112	0.143		18
0.125	0.007	0.003	0.047	0.064	0.092	0.125		19
0.071	0.297	0.161	0.033	0.050	0.089	0.110		20
0.042	0.178	3.68 E	0.026	0.045	0.089	0.117		21
0.024	0.079	0.934	0.864	0.074	0.087	0.133		22
0.018	0.048	0.654	0.651	0.555	0.076	0.127		23
0.014	0.018	0.201	0.220	0.179	0.072	0.132		24
0.008	0.008	0.062	0.127	0.145	0.294	0.135		25
0.008	0.006	0.261	0.090	0.530	0.555	0.127		26
0.007	0.005	1.53	0.070	0.257	0.238			27
0.007	0.007	3.11	0.589	0.150	0.181			28
0.007	0.040	2.44	0.221	0.103	0.146			29
0.006	0.156	0.765	0.256	0.081	0.129			30
0.005		0.351	1.13 E		0.118			31

CREDIT RIVER BELOW THE ORANGEVILLE DAM
STATION NO. 02HB112

Location: About 200 metres downstream from the outlet of the Orangeville dam at the eastern limits of the Town of Orangeville

Gauge: Staff

Drainage Area: 18.1 Square kilometres

Period of Record: May 1978 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 27	.034	Jul 17	.210		
		Jun 5	.232	Aug 12	.221		

DODD CREEK NEAR TALBOTVILLE ROYAL
STATION NO. 02GC109

Location: At the bridge on the side road leading west off Hwy.4,
about 2.4 kilometres northwest of the Hamlet of
Talbotville Royal

Gauge: Staff

Drainage Area: 22.8 Square kilometres

Period of Record: May 1972 to December 1974
June 1978 to December 1980

Remarks: Records fair

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 1	.181	Jul 4	.074		
		May 7	.099	Jul 10	.011		
		May 12	.082	Jul 23	.153		
		May 22	.122	Aug 7	.062		
		Jun 19	.079	Aug 14	.048		
		Jun 19	.099	Aug 25	.006		

DODD CREEK AT THE TALBOTVILLE FORD PLANT
STATION NO. 02GC115

Location: About 300 metres upstream of the bridge on Hwy. 4,
about 0.4 kilometres north of the Ford Motor Company
Talbotville Plant

Gauge: On stream recorder

Drainage Area: 19.2 Square kilometres

Period of Record: June to December 1978
May to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 1	.096	Jul 4	.003		
		May 7	.042	Jul 8	.008		
		May 12	.020	Jul 23	.074		
		May 22	.037	Aug 7	.031		
		Jun 19	.025	Aug 14	.014		
		Jun 25	.020	Aug 25	.006		

FAREWELL CREEK AT OSHAWA
STATION NO. 02HD113

Location: At the bridge on Bloor Street East immediately above Hwy. 401 in the City of Oshawa

Gauge: Measuring Point

Drainage Area: 55.7 Square kilometres

Period of Record: May to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.334	Jul 11	.139	Oct 23	.294
		May 29	.113	Aug 19	.117	Oct 29	.592
				Aug 28	.137		
				Sep 12	.119		

GAGE CREEK AT PORT HOPE
STATION NO. 02HD104

Location: At the bridge on Hwy. 2 about 1.6 kilometres east of
the Town of Port Hope

Gauge: Staff

Drainage Area: 43.2 Square kilometres

Period of Record: August 1966 to December 1980

Remarks: Records good

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.323	Aug 19	.067	Oct 23	.169
		May 14	.240	Sep 12	.130	Oct 30	.385
		May 28	.078	Sep 24	.120		
		Jun 25	.069				

GRAHAM CREEK AT NEWCASTLE
STATION NO. 02HD105

Location: At the concrete bridge on Mill Street about 0.8 kilometres south of Hwy. 401 in the Village of Newcastle

Gauge: Staff

Drainage Area: 86.2 Square kilometres

Period of Record: November 1965 to December 1980

Remarks: Records good

1980					
Jan. to March		April to June		July to Sept.	
Oct. to Dec.					
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.810	Jul 11	.227
		May 14	.521	Aug 19	.139
				Aug 29	.170
				Sep 12	.210
				Oct 23	.374
				Oct 29	.705

HARMONY CREEK AT OSHAWA
STATION NO. 02HD107

Location: At the bridge on Bloor Street East immediately above
Hwy. 401 in the City of Oshawa

Gauge: Staff

Drainage Area: 38.3 Square kilometres

Period of Record: April 1967 to December 1974
March to June 1977
April to June 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	.214				
		May 29	.055				
		Jun 30	2.11				

INNISFIL CREEK NEAR COOKSTOWN
STATION NO. 02ED109

Location: At the bridge on Con. 13, Township of West Gwillimbury
just east of the intersection with Hwy. 27 about 2.42
kilometres south of Cookstown

Gauge: Recording

Drainage Area: 94.0 Square kilometres

Period of Record: April to December 1980

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980								
Day	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1		2.51	0.167	0.577	0.702		0.628	
2		1.68	0.376	0.415	0.512		2.29	
3		1.20	0.235	0.329	0.615			
4		0.965	0.151	0.189	0.429			
5		0.821	0.157	0.141	0.333			
6		0.691	0.157	0.130	0.321		1.73	
7		0.580	0.258	0.123	0.297		1.27	1.06
8		0.537	0.245	0.125	0.280			1.74
9		0.512	0.193	0.124	0.319			2.05
10		0.480	0.205	0.125	0.226			2.22
11		0.446	0.174	0.125	0.270			1.46
12		0.436	0.153	0.126	0.884	0.340		1.10
13		0.407	0.138	0.128	0.682	0.346		1.07
14		0.508	0.137	0.129	0.444	0.526		2.79
15		0.440	0.243	0.130	0.328	0.505		2.31
16		0.376	0.234	0.141	0.262	0.409	0.818	1.37
17		0.336	0.145	0.137	0.223	0.428	0.802	0.936
18		0.711	0.141	0.135	0.223	0.593	1.15	0.820
19	1.42	0.881	0.154	0.136	0.284	0.436	1.12	0.791
20	1.30	0.677	0.684	0.286	0.214	0.355	1.02	0.767
21	1.16	0.516	0.864		0.180	0.355	0.940	0.818
22	0.948	0.414	0.495			0.297	0.901	0.943
23	0.844	0.334	0.390			1.29	0.771	0.944
24	0.757	0.226	0.252	1.99	2.72	1.20	0.699	0.962
25	1.06	0.225	0.154	0.886	1.17	0.91	0.957	0.961
26	1.37	0.197	0.161	0.553	0.701	1.87		0.844
27	1.07	0.180	0.153	1.10	0.502	1.64		
28		0.185	0.153		2.05	1.25		
29		0.186	0.197		1.29	0.899		
30		0.176	0.863	2.79	0.832	0.748		
31		0.172		1.13	1.08			

UNNAMED CREEK AT HWY.#637
STATION NO. 02CF109

Location: At the bridge on Hwy. 637 about 5 kilometres east of Kilarney

Gauge: Staff

Drainage Area: 2.24 Square kilometres

Period of Record: January to October 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
Jan 9	.047	May 5	.011	Jul 1	.003	Oct 1	.005
Jan 13	.029	May 12	.031	Jul 7	.002	Oct 7	.060
Jan 18	.137	May 20	.011	Jul 15	.002	Oct 15	.009
Feb 14	.009	May 26	.003	Jul 22	.002	Oct 21	.027
Feb 27	.008	Jun 3	.004	Jul 30	.001	Oct 28	.023
Mar 13	.006	Jun 10	.005	Aug 5	.002		
Mar 18	.062	Jun 18	.003	Aug 11	.001		
Mar 21	.188	Jun 24	.003	Aug 19	.002		
Mar 24	1.53			Aug 26	.001		
Mar 26	.144			Sep 2	.001		
Mar 31	.270			Sep 11	.001		
Apr 3	.447			Sep 17	.005		
Apr 8	.489			Sep 23	.006		
Apr 9	2.14						
Apr 10	.533						
Apr 11	.489						
Apr 14	.089						
Apr 21	.039						
Apr 28	.034						

LOVERS CREEK NEAR BARRIE
STATION NO. 02EC115

Location: At the culvert on Tollendale Road in the Community of Minet Point

Gauge: Measuring Point

Drainage Area: 61.1 Square kilometres

Period of Record: May 1968 to December 1980

Remarks: Data prior to 1976 appear under the name "Painswick Creek" in the Summer Gauging Site Data section of previous bulletins in this series.

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s

Apr 17	1.00	Jul 31	.711
May 26	.232	Aug 15	.187
Jun 26	.168		

LUCKNOW RIVER AT PORT ALBERT
STATION NO. 02FD107

Location: At the fish ladder beside the bridge in the Hamlet of Port Albert

Gauge: Staff

Drainage Area: 232 Square kilometres

Period of Record: June 1979 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 1	18.4	Jul 9	1.00		
		Apr 8	10.6	Jul 25	.980		
		Apr 22	5.53	Jul 31	1.47		
		May 3	3.79	Aug 5	.790		
		May 14	3.15	Aug 12	.626		
		Jun 4	1.92	Aug 26	.263		
		Jun 9	2.01				
		Jun 11	1.71				
		Jun 24	1.34				

LYNN RIVER AT PORT DOVER
STATION NO. 02GC102

Location: At the old dam site upstream of Silver Lake in the community of Port Dover

Gauge: Staff

Drainage Area: 146 Square kilometres

Period of Record: April 1965 to December 1975
April to November 1977
May to December 1980

Remarks: Data prior to 1976 appear under the name "Painswick Creek" in the Summer Gauging Site Data section of previous bulletins in this series.

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 15	2.35				
		May 28	1.29				
		Jun 11	1.62				
		Jul 16	1.01				
		Jul 30	1.36				
		Aug 18	1.39				

MIDDLE MAITLAND RIVER AT BRUSSELS
STATION NO. 02FE103

Location: At the bridge on Huron County Road 12 in the Village of Brussels

Gauge: None

Drainage Area: 570 Square kilometres

Period of Record: June 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 14	2.51	Jul 9	.244		
		Jun 4	1.76	Jul 25	.122		
		Jun 11	1.40	Aug 5	.142		
		Jun 24	.575	Aug 12	.096		
				Aug 26	.028		

MINISTIC CREEK NEAR AGNEW LAKE MINE
STATION NO. 02CE103

Location: Downstream of culverts crossing Agnew Lake Mine Road about 5.6 kilometres from the intersection with High Falls Road.

Gauge: Recording

Drainage Basin: 41.2 Square kilometres

Period of Record: 1978 to December 1980

Remarks: Data for 1978 and 1979 contributed to Water Survey of Canada for publication.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980						
Day	Jan	Feb	Mar	Apr	May	Jun
1	0.368	0.325	0.173			0.258
2	0.354	0.312	0.171			0.229
3	0.334	0.287	0.171			0.247
4	0.255	0.280	0.174			0.229
5	0.238	0.255	0.171			0.237
6	0.232	0.243	0.169			0.224
7	0.263	0.241	0.171			0.256
8	0.278	0.234	0.171			0.783
9	0.283	0.223	0.171			0.630
10	0.283	0.218	0.169			
11	0.481	0.221	0.170			
12	0.736	0.216	0.165			
13	0.850	0.217	0.162			
14	0.793	0.214	0.161			
15	0.736	0.208	0.159			
16	0.680	0.198	0.152			
17	0.609	0.190	0.173		0.468	
18	0.552	0.196	0.198		0.675	
19	0.708	0.195	0.193		1.03	
20	0.680	0.198	0.216		0.759	
21	0.637	0.199	0.281		0.585	
22	0.595	0.201	0.342		0.491	
23	0.566	0.208	0.331		0.445	
24	0.538	0.207	0.295		0.530	
25	0.496	0.199	0.267		0.525	
26	0.463	0.189	0.244		0.351	
27	0.436	0.197	0.227		0.361	
28	0.431	0.179	0.228		0.353	
29	0.389	0.178	0.248		0.298	
30	0.352		0.301		0.285	
31	0.328		0.381		0.267	

MOUNT ALBERT CREEK NEAR MOUNT ALBERT
STATION NO. 02EC104

Location: At the bridge on Queensville side road about 4.0 kilometres north of the Community of Mount Albert.

Gauge: On-stream recorder

Drainage Basin: 63.0 Square kilometres

Period of Record: July 1970 to December 1973-Periodic Data
April 1976 to November 1980 - Seasonal Recorder

Remarks: Temporary on-stream recorder installed April 1 to November 17, 1980.

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980									
Day	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	0.521	0.850	0.354	0.402	0.513	0.756	0.405	0.507	
2	0.351	0.739	0.430	0.379	0.481	0.821	0.453	0.530	
3	0.391	0.691	0.416	0.362	0.527	0.767	0.541	0.501	
4	0.597	0.648	0.382	0.362	0.467	0.541	0.702	0.504	
5	0.547	0.603	0.345	0.362	0.411	0.439	0.637	0.504	
6	0.725	0.580	0.334	0.357	0.394	0.391	0.544	0.490	
7	0.841	0.561	0.379	0.362	0.368	0.362	0.501	0.555	
8	0.767	0.549	0.371	0.391	0.360	0.348	0.462	0.767	
9	0.419	0.544	0.377	0.345	0.368	0.354	0.447	0.691	
10	0.433	0.524	0.377	0.340	0.334	0.385	0.433	0.631	
11	0.592	0.496	0.351	0.331	0.326	0.360	0.436	0.544	
12	0.711	0.504	0.334	0.314	0.365	0.345	0.479	0.501	
13	0.756	0.513	0.311	0.309	0.362	0.365	0.445	0.501	
14	1.01	0.575	0.309	0.294	0.340	0.442	0.447	0.413	
15	1.73	0.555	0.365	0.303	0.323	0.422	0.484	0.677	
16	1.04	0.518	0.396	0.334	0.309	0.388	0.436	0.544	
17	0.881	0.490	0.345	0.328	0.303	0.396	0.440	0.470	
18	0.867	0.578	0.314	0.314	0.309	0.498	0.561		
19	0.855	0.609	0.317	0.297	0.317	0.399	0.541		
20	0.824	0.538	0.629	0.490	0.303	0.374	0.500		
21	0.773	0.490	0.600	0.215	0.297	0.385	0.487		
22	0.719	0.459	0.436	0.787	0.300	0.396	0.487		
23	0.657	0.439	0.362	0.558	0.326	0.773	0.473		
24	0.634	0.422	0.292	0.464	0.317	0.623	0.442		
25	0.657	0.402	0.297	0.425	0.303	0.479	0.547		
26	0.697	0.362	1.02	0.425	0.300	0.507	1.21		
27	0.651	0.360	0.569	0.498	0.300	0.532	0.929		
28	0.787	0.360	0.408	0.634	0.447	0.464	0.714		
29	1.24	0.357	0.422	1.51	0.459	0.439	0.595		
30	1.04	0.334	0.614	0.900	0.374	0.433	0.524		
31		0.351		0.614	0.394		0.487		

MUSKOKA RIVER AT PENNINSULA LAKE OUTLET, HUNTSVILLE
STATION NO. 02EB116

Location: At the bridge on Canal Road at the outlet of Peninsula Lake about 7.4 kilometres east of the Town of Huntsville.

Gauge: Staff

Drainage Area: 22.4 Square kilometres

Period of Record: May to October 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 1	1.01	Jul 31	2.02	Oct 14	2.11
		May 30	1.04	Aug 7	0		
		Jun 12	2.46	Aug 26	1.42		
		Jun 27	7.28	Sep 29	1.08		

NANTICOKE CREEK NEAR JARVIS
STATION NO. 02GC113

Location: At the bridge on Haldimand-Norfolk Regional Road 69,
about 1.6 kilometres west of the Community of Jarvis.

Gauge: On-stream recorder

Drainage Basin: 149.7 Square kilometres

Period of Record: May 1977 to July 1977
July 1979 to December 1980

DAILY DISCHARGE IN CUBIC METRES PER SECOND

[illegible]

NORTH SAUGEEN RIVER NEAR CHESLEY
STATION NO. 02FC106

Location: At the bridge on Concession 2-3, Township of Edlerslie, about 1.6 kilometres west of the Town of Chesley

Gauge: None

Drainage Area: 225 Square kilometres

Period of Record: July 1975 to November 1975
May 1978 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 6	5.84	Jul 8	3.50		
		May 15	4.58	Jul 24	5.88		
		Jun 5	4.62	Aug 5	5.60		
		Jun 12	3.67	Aug 13	3.61		
		Jun 23	7.97	Aug 27	2.03		

OTTER CREEK AT MILD MAY
STATION NO. 02FC108

Location: At the Otter Creek Conservation Area in the Village of Mildmay

Gauge: None

Drainage Area: 38.3 Square kilometres

Period of Record: June 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 6	.629	Jul 9	.326		
		May 14	.731	Jul 24	.314		
		Jun 4	.433	Aug 5	.280		
		Jun 11	.411	Aug 12	.272		
		Jun 24	.382	Aug 26	.176		

PORCUPINE RIVER AT PORCUPINE
STATION NO. 04MD101

Location: At the bridge on Hwy. No. 101, at the outlet of Porcupine Lake in the Community of Porcupine, within the City of Timmins.

Gauge: Staff

Drainage Area: 84.2 Square kilometres

Period of Record: May 1978 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 28	9.119				
		May 6	5.046				
		May 26	1.708				
		Jun 2	0.556				
		Jun 9	1.341				

PORCUPINE RIVER AT THE SOUTH PORCUPINE HOSPITAL
STATION NO. 04MD102

Location: At the bridge over the Porcupine River, just east of the South Porcupine Hospital, in the Community of South Porcupine.

Gauge: None

Drainage Area: 35.7 Square kilometres

Period of Record: June 1978 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 29	2.449				
		May 7	0.698				
		May 12	2.199				
		May 20	0.189				
		May 26	0.395				
		Jun 02	0.614				
		Jun 09	0.748				

PORCUPINE RIVER AT SOUTH PORCUPINE
STATION NO. 04MD103

Location: At the bridge on Evans Street, at the inlet to Porcupine Lake in the community of South Porcupine.

Gauge: Staff

Drainage Area: 73.0 Square kilometres

Period of Record: April 1980 to June 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 28	6.068				
		May 6	1.411				
		May 12	5.059				
		May 20	0.542				
		May 26	0.763				
		Jun 2	1.069				
		Jun 9	0.545				

PORCUPINE RIVER, HWY 101 BELOW DOME MINE TAILINGS
STATION NO. 04MD105

Location: At the bridge on Highway #101 about 3.2 kilometres west
of the Community of South Porcupine

Gauge: Staff

Drainage Area: 11.0 Square kilometres

Period of Record: April 1980 to June 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 22	1.360				
		Apr 29	0.710				
		May 6	0.265				
		May 13	0.426				
		May 20	0.067				
		May 26	0.130				
		Jun 02	0.200				
		Jun 09	0.169				

SOUTH PORCUPINE RIVER AT SOUTH PORCUPINE
STATION NO. 04MD104

Location: At O.N.R. Railway Bridge just above the confluence
with Porcupine River, 1 kilometre south of the
Community of South Porcupine.

Gauge: Staff

Drainage Area: 36.3 Square kilometres

Period of Record: April 1980 to June 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 22	0.781				
		Apr 28	0.496				
		May 13	1.956				
		May 20	0.209				
		May 26	0.202				
		Jun 2	0.409				
		Jun 9	0.208				

PRINGLE CREEK AT WHITBY
STATION NO. 02HD108

Location: At the old steel bridge below Victoria Street East, in the Town of Whitby

Gauge: Staff

Drainage Area: 21.5 Square kilometres

Period of Record: July 1966 to December 1980

Remarks: Records good

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
						Oct 23	.294
						Oct 29	.413
		May 5	.361	Jul 11	.257		
		May 29	.244	Aug 19	.238		
		Jun 30	2.27	Aug 29	.250		

REDHILL CREEK AT HAMILTON
STATION NO. 02HB107

Location: At the bridge on Barton Street in the City of Hamilton

Gauge: Staff

Drainage Area: 52.8 Square kilometres

Period of Record: May 1968 to December 1977
June to August 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Jun 11	.139	Jul 22	.345		
		Jun 20	.280	Aug 18	.040		

SALEM CREEK NEAR COLBORNE
STATION NO. 02HD101

Location: About 60 metres upstream from the bridge on Blyth Road, approximately 2.4 kilometres southeast of the Village of Colborne

Gauge: Staff

Drainage Area: 9.1 Square kilometres

Period of Record: November 1965 to December 1980

Remarks: Records good

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		Apr 23	.187	Jul 10	.141	Oct 24	.137
		May 28	.129	Aug 13	.139	Oct 30	.162
		Jun 24	.092	Aug 29	.119		
				Sep 24	.148		

SAUBLE RIVER AT TARA
STATION NO. 02FA101

Location: At the bridge on the Main Street in the Village of Tara

Gauge: None

Drainage Area: 210 Square kilometres

Period of Record: June 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 6	1.70	Jul 8	1.24		
		May 15	1.25	Aug 13	.954		
		Jun 5	1.46	Aug 27	.513		
		Jun 12	1.25				
		Jun 23	3.96				

SPEY RIVER NEAR CHATSWORTH
STATION NO. 02FB104

Location: At the culvert on Hwys. 6 and 10, about 1.1 kilometres north of the Village of Chatsworth

Gauge: None

Drainage Area: 39.6 Square kilometres

Period of Record: May 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 6	.600	Jul 8	.283		
		May 15	.513	Jul 24	.155		
		Jun 5	.422	Aug 6	.399		
		Jun 12	.385	Aug 13	.362		
		Jun 23	1.01	Aug 27	.136		

TEESWATER RIVER AT TEESWATER
STATION NO. 02FC104

Location: At the bridge on Hwy. 4 in the Village of Teeswater
Gauge: None
Drainage Area: 130 Square kilometres
Period of Record: June 1975 to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 6	1.86	Jul 8	.535		
		May 14	2.31	Jul 24	.623		
		Jun 4	1.04	Aug 5	.544		
		Jun 11	1.01	Aug 12	.538		
				Aug 26	.210		

TWELVE MILE CREEK AT DECEW FALLS
STATION NO. 02HA105

Location: At the bridge on 1st Street South, in the Community of Decew Falls

Gauge: Measuring Point

Drainage Area: 48.7 Square kilometres

Period of Record: May 1969 to December 1975
April 1977 to December 1978
May to December 1980

1980							
Jan. to March		April to June		July to Sept.		Oct. to Dec.	
Date	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	m ³ /s
		May 13	.314				
		Jun 9	.345				
		Jun 25	.221				
		Jul 28	.218				

URFE CREEK NORTH OF PICKERING
STATION NO. 02HC116

Location: At the first bridge east of Brook Road on Durham Regional Road No. 4, about 4.0 kilometres north of the Town of Pickering

Gauge: On-stream recorder

Drainage Area: 10.6 Square kilometres

Period of Record: January 1977 to December 1980

Remarks: Temporary on-stream recorder installed June 18 to November 30, 1980

DAILY DISCHARGE IN CUBIC METRES PER SECOND

1980								
Day	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1		0.050	0.047	0.126	0.012	0.046	0.083	
2		0.039	0.036	0.101	0.020	0.044		
3		0.028	0.041	0.059	0.037	0.045		
4		0.022	0.030	0.034	0.062	0.057		
5		0.020	0.025	0.025	0.038	0.059		
6		0.017	0.023	0.018	0.030	0.054		
7		0.013	0.018	0.013	0.025	0.073		
8		0.016	0.021	0.010	0.022	0.092		
9		0.015	0.023	0.020	0.016	0.091		
10		0.014	0.015	0.022	0.018	0.084		
11		0.012	0.014	0.010	0.028	0.063		
12		0.010	0.047	0.008	0.031	0.055		
13		0.009	0.025	0.020	0.025	0.055		
14		0.007	0.024	0.037	0.021	0.101		
15		0.017	0.020	0.021	0.020	0.084		
16		0.017	0.013	0.015	0.023	0.063		
17		0.039	0.01	0.018	0.030	0.051		
18	0.019	0.018	0.013	0.017	0.0113	0.052		
19	0.024	0.013	0.013	0.011	0.054	0.054		
20	0.106	0.094	0.010	0.010	0.039	0.053		
21	0.050	0.232	0.011	0.016	0.039	0.055		
22	0.030	0.077	0.010	0.016	0.039	0.060		
23	0.023	0.050	0.011	0.077	0.037	0.056		
24	0.020	0.034	0.010	0.028	0.039	0.058		
25	0.018	0.020	0.007	0.019	0.127	0.066		
26	0.026	0.023	0.006	0.035	0.178	0.055		
27	0.048	0.033	0.007	0.024	0.088	0.051		
28	0.046	0.064	0.022	0.017	0.068	0.081		
29	0.058	0.269	0.018	0.013	0.057	0.109		
30	0.120	0.176	0.030	0.013	0.051	0.088		
31		0.069	0.110		0.047			



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